Table 2 Trees Suitable for Establishment

					T	Suitable Use(s)								
TREES	Soil Drainage Class ¹	Shade Tolerance ²	Height at 20 Years ³	Aprox. Height at Maturity ⁴	Native ⁵	Windbreaks Wildlife 7			Wood		Additional Plant		Commercial	
						Screens Barriers or Other ⁶	Food	Cover	Corridors	Wildlife Spacing	Production In	Information Available 9	Remarks	Availability ¹⁰
Alder, European Black (Alnus glutinosa)	Well - Moderately Well	Intermediate	40 ft	60 ft	No	8-18 ft *			х	8-12 ft		Fact Sheet	Excellent for reclamation. Nitrogen fixer. Good for hedgerow and windbreaks where non-natives are acceptable.	Readily
Ash, Green (Fraxinus pennsylvanica)	Moderately Well - Poorly	Intermediate	50 ft	80 ft	Yes	8-18 ft	Х		х	8-12 ft		Fact Sheet	The seeds are eaten by a number of birds and mammals. Extensively planted as a shade and ornamental tree.	Readily
Ash, White (Fraxinus americana)	Well - Somewhat Poorly	Intermediate	50 ft	80 ft	Yes	8-18 ft	х	х	х	8-12 ft	20 X 20 ft	Plant Guide	Excellent all purpose ornamental, wildlife, and shade tree. Has commercial timber value.	Readily
Basswood (Tilia americana)	Well - Moderately Well	Intermediate	45 ft	80 ft	Yes	8-18 ft	Х		х	8-12 ft	10-15 ft	Plant Guide	Provides good browse. The buds are important for birds and deer in winter. Planted as a shade tree or ornamental.	Readily
Birch, Black (Betula nigra)	Well - Somewhat Poorly	Intolerant	40 ft	80 ft	Yes			Х	х	8-12 ft		Fact Sheet	Native riparian tree. Its young twigs, buds, foliage and seeds are used by a variety of wildlife.	Somewhat Available
Blackgum (Nyssa sylvatica)	Well - Somewhat Poorly	Tolerant	30 ft	95 ft	Yes		Х			8-12 ft		Fact Sheet	Black bears, foxes, wood ducks, wild turkeys, robins, brown thrashers, thrushes, and flickers frequently eat the fruit.	Readily
Boxelder (Acer negundo)	Well - Poorly	Intermediate	35 ft	60 ft	Yes				х	8-12 ft		Plant Guide	Very quick growing. Found along streams and frequently flooded areas. Relatively short lived and often disease prone.	Readily
Cedar, Northern White (Thuja occidentalis)	Well - Somewhat Poorly	Intermediate	25 ft	50 ft	Yes	8-16 ft		х		8-12 ft		Plant Guide	Also called Arborvitae. Popular ornamental for screens and hedgerows in limestone areas. Provides some nesting cover.	Readily
Cedar, Atlantic White (Chamaecyparis thyoides)	Moderately Well - Poorly	Tolerant	20 ft	90 ft	No	8-16 ft		Х		8-12 ft		Plant Guide Fact Sheet	Similar to Arborvitae. A coastal species not native to WV. Tolerant of wet conditions.	Readily
Cherry, Black (Prunus serotina)	Well - Somewhat Poorly	Intolerant	40 ft	100 ft	Yes	8-18 ft	Х		х	8-12 ft	20 X 20 ft	Plant Guide	Valuable food source for many wildlife species. Used for commercial timber and ornamental purposes on a wide variety of soils.	Readily
Chestnut, Chinese (Castanea mollissima)	Well - Moderately Well	Intolerant	25 ft	70 ft	No	6-14 ft	Х			8-12 ft		No	Mostly planted as an ornamental. Some wildlife utilize the chestnuts.	Readily
Cucumber-Tree (Magnolia acuminata)	Well - Moderately Well	Intolerant	40 ft	100 ft	Yes	8-18 ft			Х	8-12 ft	10-15 ft	No	Beautiful native tree common throughout WV. Minimal wildlife value. Sometimes used as an ornamental and timber species.	Readily
Cottonwood, Eastern (Populus deltoides)	Well - Somewhat Poorly	Intermediate	50 ft	120 ft	Yes	8-18 ft		Х		8-12 ft		Fact Sheet	Fast growing and used in reclamation. Hybrids make good selections for windbreaks in multi-row installations.	Readily
Fir, Douglas (<i>Pseudotsuga menziesii</i>)	Well - Moderately Well	Intermediate	40 ft	200 ft	No	8-16 ft		Х		8-12 ft		Plant Guide Fact Sheet	One of the world's most important timber species. Excellent as wildlife, windbreak, and Christmas tree.	Readily
Hackberry (Celtis occidentalis) Hemlock, Eastern	Well - Somewhat Poorly	Intermediate	40 ft	70 ft	Yes	8-18 ft	Х		Х	8-12 ft		Fact Sheet	Birds use the mature trees for nesting sites and feed on the fruit. Young stands also provide shelter for game birds and rabbits.	Readily
(<i>Tsuga canadensis</i>) Hickory, Shagbark	Well - Somewhat Poorly Well - Moderately	Tolerant	20 ft	100 ft	Yes	8-16 ft		Х	Х	8-12 ft		Plant Guide	This tree is versatile as a hedge, large timber species, screen and wildlife tree. Different cultivars exist. Native and attractive. Develops deep taproot in the first few years. Needs deep alluvial	Readily
(Carya ovata) Honeylocust	Well - Woderately Well Well - Somewhat	Intermediate	15 ft	90 ft	Yes		Х			8-12 ft		No	soils. Slow growing. Excellent nut producer. Some timber value. Planted as a hardy and fast-growing ornamental. Minimal wildlife	Readily
(Gleditsia triacanthos)	Poorly Well - Somewhat	Intolerant	35 ft	80 ft	No	8-18 ft						Plant Guide	value. Highly regarded in urban settings with many cultivars. Deciduous conifer used primarily as an ornamental and timber	Readily
Larch, Japanese (<i>Larix kaempferi</i>) Locust, Black	Poorly Well - Somewhat	Intolerant	20 ft	100 ft	No	6-14 ft *						No	Easy to establish. Early successional species and may be relatively	Readily
(<i>Robinia pseudoacacia</i>) Maple, Red	Poorly	Intermediate	55 ft	80 ft	Yes	8-18 ft *	Х		Х	8-12 ft		Fact Sheet Fact Sheet	Short lived. Bee attractant. Nitrogen fixing species. Valued as native ornamental. Early blooming and important as an	Readily
(Acer rubrum) Maple, Silver	Well - Poorly Moderately Well -	Intermediate	40 ft	90 ft	Yes	8-18 ft		Х	Х	8-12 ft		Plant Guide Plant Guide	lmportant as a wildlife food	Readily
(Acer saccharinum) Maple, Sugar	Poorly Well - Somewhat	Intermediate	45 ft	80 ft	Yes	8-18 ft		Х	X	8-12 ft		Fact Sheet	Source. May be disease prone and susceptible to storm damage. Popular and long-lived shade and ornamental tree. Tolerates a wide	Readily
(Acer saccharum) Mulberry, Red	Poorly Well - Somewhat	Tolerant	20 ft	100 ft	Yes	6-14 ft		Х	X	8-12 ft		Plant Guide	range of conditions. Important for cavity nesting wildlife. Excellent wildlife tree for a variety of species especially birds.	Readily Somewhat
(Morus rubra) Oak, Chinquapin	Poorly Well - Moderately	Intermediate	45 ft	70 ft	Yes		X		X	8-12 ft		No	Sometimes hard to establish. Very site specific. Rare throughout its range. Site specific to alkaline soils and	Available
(Quercus muehlenbergii) Oak, Northern Red	Well - Moderately Well - Moderately	Intolerant	40 ft	80 ft	Yes	8-18 ft	X		X	8-12 ft		No	limestone outcropped areas. Good riparian species. One of our most important and handsome oaks. Important as a	Readily
(Quercus rubra) Oak, Overcup	Well - Well - Moderately Well -	Intermediate	35 ft	100 ft	Yes	8-18 ft	X		X	8-12 ft	20 X 20 ft	Plant Guide	wildlife food source, timber species and ornamental. Often planted for timber and as an ornamental and to improve wildlife	Readily
(Quercus lyrata)	Poorly	Intermediate	30 ft	80 ft	No	8-18 ft	Х		Х	8-12 ft	20 X 20 ft	Plant Guide	habitat for bottomland restoration. Native to the mid-west.	Readily

Table 2 Trees Suitable for Establishment

	Soil Drainage	Shade Tolerance ²	Height at 20	Aprox. Height at	Native ⁵	Suitable Use(s)						Additional		
TREES								Wildlife	_ ` '		Wood Production	Additional Plant Information	Pomarke	Commercial Availability ¹⁰
						Screens				Wildlife				
	Ciass	Tolerance	Years 3	Maturity 4		Barriers or Other ⁶	l	_		Spacing	Spacing 8	Available 9		Availability
Oak, Pin	Moderately Well -					Other	Food	Cover	Corridors		., 5		Adapted to wetter sites. Good mast producer and attractive	
(Quercus palustris)	Poorly	Intolerant	40 ft	100 ft	Yes	8-18 ft	Х			8-12 ft		Fact Sheet	ornamental. Utilized by various wildlife especially wood ducks.	Readily
Oak, Post	Well - Moderately												Tolerates harsh conditions and drought. Slow growing and may be	Somewhat
(Quercus stellata)	Well	Intermediate	25 ft	80 ft	Yes	8-18 ft	Х		Х	8-12 ft		No	susceptible to chestnut blight. Sometimes used as an ornamental.	Available
Oak, Shingle	Well - Moderately				.,				.,				An ornamental and shade tree, it is suitable for hedges, screens and	
(Quercus imbricaria)	Well	Intolerant	30 ft	45 ft	Yes	8-18 ft			Х	8-12 ft		No	windbreaks. Relatively low wildlife value among oaks.	Readily
Oak, Sawtooth	Well - Moderately	Intermediate	50 ft	70 ft	No	8-18 ft	х		Х	15-20 ft		Fact Sheet	Wildlife oak that produces heavy amounts of small acorns attractive	Somewhat
(Quercus acutissima)	Well	Intermediate	3011	7011	INO	0-1011	^		^	13-20 11		1 act oneet	to many animal species. Relatively fast growing.	Available
Oak, Swamp White	Somewhat Poorly -	Intermediate	30 ft	100 ft	Yes		х		Х	8-12 ft		Plant Guide	Requires moist acidic conditions. Important food for wildlife such as	Readily
(Quercus bicolor)	Poorly	micimicalate	0011	10011	100					0 12 11		Tidit Galac	squirrels, black bear, ducks and turkey. Often hybridizes.	rtoddily
Oak, White	Well - Moderately	Intermediate	30 ft	100 ft	Yes	8-18 ft	х		Х	8-12 ft	20 X 20 ft	Fact Sheet	Extremely important as a timber and wildlife food tree. Slow growing	Readily
(Quercus alba)	Well												and often difficult to establish.	, ,
Paulownia, Royal	Well - Moderately Well	Intermediate	60 ft	70 ft	No						20 X 20 ft	No	Rapidly growing introduced species. Specialized commercial timber species. Often escapes and has no known wildlife value.	Readily
(Paulownia tomentosa) Persimmon, Common	Well - Somewhat												Used by raccoon, opossum, and various birds, including quail, wild	Somewhat
(Diospyros virginiana)	Poorly	Intermediate	25 ft	50 ft	Yes		Х			8-12 ft		Plant Guide	turkey and cedar waxwing. Slow growing and difficult to transplant.	Available
Pine, Austrian Black	Well - Somewhat												Non-native used mainly for ornamentals, screens and as a	
(Pinus nigra)	Poorly	Intermediate	35 ft	100 ft	No	8-16 ft		Х		6-12 ft		No	reclamation plant. Used as winter cover for various bird species.	Readily
Pine, Eastern White	Well - Somewhat		10.6		.,				.,				Squirrels and 16 species of songbirds have been known to eat the	
(Pinus strobus)	Poorly	Intolerant	40 ft	130 ft	Yes	8-16 ft		Х	Х	6-12 ft	6 - 8 ft	Fact Sheet	seed. Native pine with commercial timber and ornamental value.	Readily
Pine, Loblolly	Well - Somewhat	lasta la sanat	50.4	400.6	NI-	0.40.6		v	Х	0.40.0	0.04	NI-	Extremely important timber species. Provides some cover and	Decedit.
(Pinus taeda)	Poorly	Intolerant	50 ft	100 ft	No	8-16 ft		Х	Α	6-12 ft	6 - 8 ft	No	browse in winter months to wildlife.	Readily
Pine, Red	Well - Moderately	Intolerant	30 ft	80 ft	Yes	8-16 ft		Х	Х	6-12 ft	6 - 8 ft	No	Found primarily at higher elevations in the eastern counties. Used	Readily
(Pinus resinosa)	Well	molerani	3011	00 II	165	0-1011		^	^	0-12 IL	0-011	INU	for ornamentals and reforestation and has commercial value.	Readily
Pine, Scotch	Well - Moderately	Intolerant	30 ft	110 ft	No	8-16 ft		х		6-12 ft		Fact Sheet	Used in windbreaks as the central or leeward rows of multi-row	Readily
(Pinus sylvestris)	Well	o.o.a.n	0011			0 .0				V .=		. 401 011001	plantings. Important Christmas tree species. Some wildlife use.	- todaily
Pine, Virginia	Well - Moderately	Intermediate	25 ft	70 ft	Yes	6-14 ft	Х	Х		6-12 ft	6 - 8 ft	No	Native pine used primarily as pulpwood. Provides some wildlife food	Readily
(<i>Pinus virginiana</i>) Plum, Wild	Well Well - Somewhat												and cover. Sometimes used in windbreaks and screens. Native plum found throughout WV. Common along streambanks and	
(Prunus americana)	Poorly	Intolerant	25 ft	25 ft	Yes	6-14 ft	Х		Х	8-12 ft		No	wood lines. Fruit valued by many species of wildlife.	Readily
Poplar, Yellow	Moderately Well -	1											Fast growing. Attractive ornamental but very large. Important timber	Somewhat
(Liriodendron tulipifera)	Somewhat Poorly	Intolerant	60 ft	120 ft	Yes		Х		Х	10-15 ft	10-15 ft	Fact Sheet	species in WV. Provides some secondary wildlife food.	Available
Redbud, Eastern	Well - Somewhat												Many birds, including bobwhite quail, eat the seeds. Honeybees use	
(Cercis canadensis)	Poorly	Tolerant	16 ft	16 ft	Yes		Х			5-8 ft		Plant Guide	the blossoms. Often planted as an ornamental.	Readily
Redcedar, Eastern	Well - Somewhat	lasta anno a di asta	05.4	00.4	V	0.446	v	v		0.40.6		Fact Sheet	Eastern redcedar provides habitat for a variety of wildlife. Specific to	Decedit.
(Juniperus virginiana)	Poorly	Intermediate	25 ft	80 ft	Yes	6-14 ft	Х	Х		8-12 ft		Plant Guide	limestone associated sites. Cedar-apple rust host.	Readily
Serviceberry, Common	Well - Somewhat	Tolerant	20 ft	50 ft	Yes	6-14 ft	Х			8-12 ft		Plant Guide	At least 40 bird species, rabbits, chipmunks, mice, voles, foxes, and	Readily
(Amelanchier arborea)	Poorly	Tolerani	2011	30 II	165	0-14 IL	^			0-12 IL		Flant Guide	black bears eat the fruit. Widely used as an ornamental.	Readily
Spruce, Norway	Well - Somewhat	Intermediate	35 ft	120 ft	No	8-16 ft *		х		8-12 ft		No	Important as a windbreak, screen and ornamental. Winter cover for	Readily
(Picea abies)	Poorly	memediate	33 11	12011	140	0-1010		^		0-12 It		140	some resident birds. Mourning doves utilize this tree for nesting.	readily
Spruce, Red	Well - Moderately	Tolerant	25 ft	110 ft	Yes	8-16 ft	х	Х	Х	8-12 ft		Fact Sheet	One of the most important timber and wildlife species in North	Readily
(Picea rubens)	Well												America. Site specific above 3500 feet in eastern counties of WV.	, ,
Spruce, White	Well - Somewhat	Intermediate	30 ft	100 ft	No	8-16 ft	Х	Х		8-12 ft		Plant Guide	Important as a screen, timber and ornamental. Winter cover and	Readily
(<i>Picea glauca</i>) Sycamore, American	Poorly Moderately Well -												food for some birds. Hybridizes freely. Native to the northeast. Very quick growing and large. Slow decaying leaves. Prone to	•
(Platanus occidentalis)	Poorly	Intermediate	65 ft	100 ft	Yes				Х	8-12 ft		Plant Guide	disease. Found along streambanks and a variety of other sites.	Readily
Sweetgum	Well - Somewhat	+										Fact Sheet	Prefers deep soils for root development. Important as a timber,	-
(Liquidambar styraciflua)	Poorly	Intolerant	50 ft	100 ft	Yes	8-18 ft			Х	8-12 ft		Plant Guide	wildlife and ornamental. Tolerates a variety of sites and conditions.	Readily
Walnut, Black	Well - Moderately	i					-						Prefers deep well drained soils. Important as a timber and nut crop	
(Juglans nigra)	Well	Intermediate	35 ft	100 ft	Yes		Х		Х	10-20 ft	20 X 20 ft	Fact Sheet	tree. Produces juglone that inhibits competition.	Readily
(Co.g. and ringra)			•											

^{*} These species may be utilized as stock trainers for high quality timber production.